



Job Name/Title: _____ Catalog Number _____
Contractor: _____ Notes: _____

LED Canopy Luminaire SQUARE



Simply Install Safe & Secure Lighting

Topaz's LED canopy and parking garage lights promote safety and security in commercial and industrial environments. Suitable for indoor and outdoor applications, they are the perfect fit for parking garages, underground passageways, and corridors. Additionally, the durable polycarbonate lens is IK08 rated to withstand the force of impact. With a functional life of 50,000 hours, these fixtures are sure to outlast the competition.

FEATURES

- Die-cast aluminum construction, powder coat finish with polycarbonate lens
- Rated for Ingress Protection IP65 and Impact Rating IK08
- Superior optical performance with uniform light distribution
- Long functional life with significant energy savings
- Hinged and removable mounting plate for easy installation

SUGGESTED APPLICATIONS

- Parking garages
- Stairwells
- Exterior canopy settings
- Carports



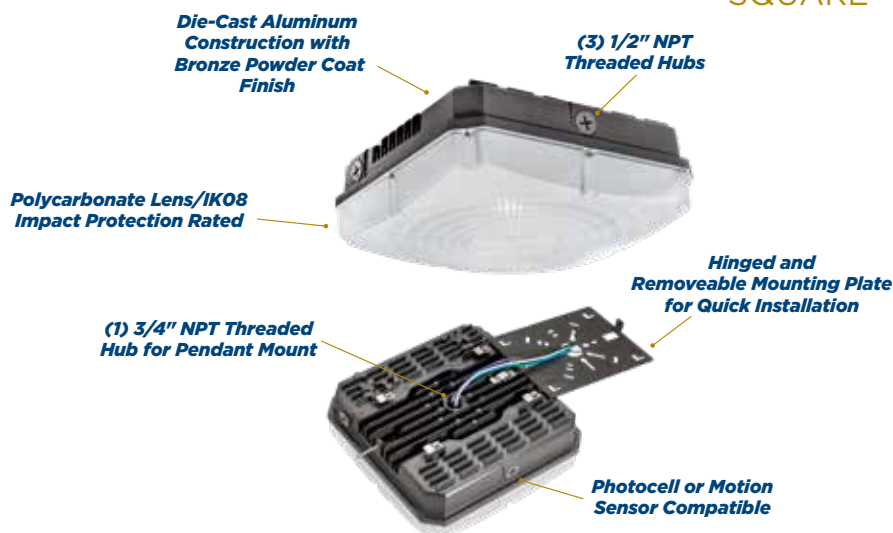


Job Name/Title: _____ Catalog Number _____
Contractor: _____ Notes: _____

LED Canopy Luminaire SQUARE

GENERAL SPECIFICATIONS

Input Voltage, Frequency: 120-277V, 50/60Hz
Power Factor, THD %: >0.9, <20%
Dimmable: 1-10V¹
Surge Protection Rating: 6kV
Efficacy: Up to 125 LPW
CRI: 80
Functional Life (L70): 50,000 hours
Location Rating: Wet
IP Rating: IP65
IK Rating: IK08
Ambient Operating Temperature: -40°F to 104°F



ITEM SPECIFICATIONS / ORDER INFO

Catalog Number	Order Code	UPC	Lumens	Watts	Input Amps 120-277V	CCT	Beam Angle	DLC ID
F-CPS/40W/40K/BZ-87	70551	751338036413	5,000	40W	0.367A/0.159A	4000K	155°	PLGMHQ590N7Q
F-CPS/40W/50K/BZ-87	70466	751338036420	5,000	40W	0.367A/0.159A	5000K	155°	PLBXT842MTW8
F-CPS/60W/40K/BZ-87	70477	751338036437	7,500	60W	0.55A/0.24A	4000K	155°	PLEKDBD7BPS7
F-CPS/60W/50K/BZ-87	70478	751338036444	7,500	60W	0.55A/0.24A	5000K	155°	PL4LLGDFGPD6

NOMENCLATURE

Example: F-CPS/40W/40K/BZ-87

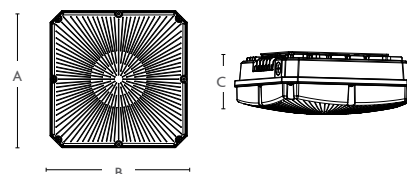
F-CPS = Fixture - Canopy Square / 40W = 40 Watt / 40K = 4000K / BZ = Bronze
/ 60W = 60 Watt / 50K = 5000K

ENERGY SAVINGS

Catalog Number	LED Watts	HID Replacement Watts	Watts Saved	Yearly Savings	5 Year Savings
Based on 12 hours/day and 11c/kWh					
F-CPS/40W/xxK/BZ-87	40W	175W	135W	\$65	\$325
F-CPS/60W/xxK/BZ-87	60W	250W	190W	\$92	\$458

PRODUCT DIMENSIONS / LINE DRAWING

Catalog Number	A	B	C	Weight
F-CPS/xxW/xxK/BZ-87	10.06"	10.06"	4.19"	4.96 Lbs



NOTES:

¹ Dimming with standard 0-10V control system or wall dimmers such as Leviton IP710, DS710 or Lutron DVSTV. Dimming complies with IEC60929 Annex E. Fixture may not be compatible with all dimmers. Visit www.topaz-usa.com for up-to-date dimmer compatibility information.

Specifications subject to change without prior notice. Replacement wattage shown depends on application and fixture.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING: Some products included in this specification sheet may be subject to the warning requirements of California's Proposition 65. Please refer to your product packaging for more information.

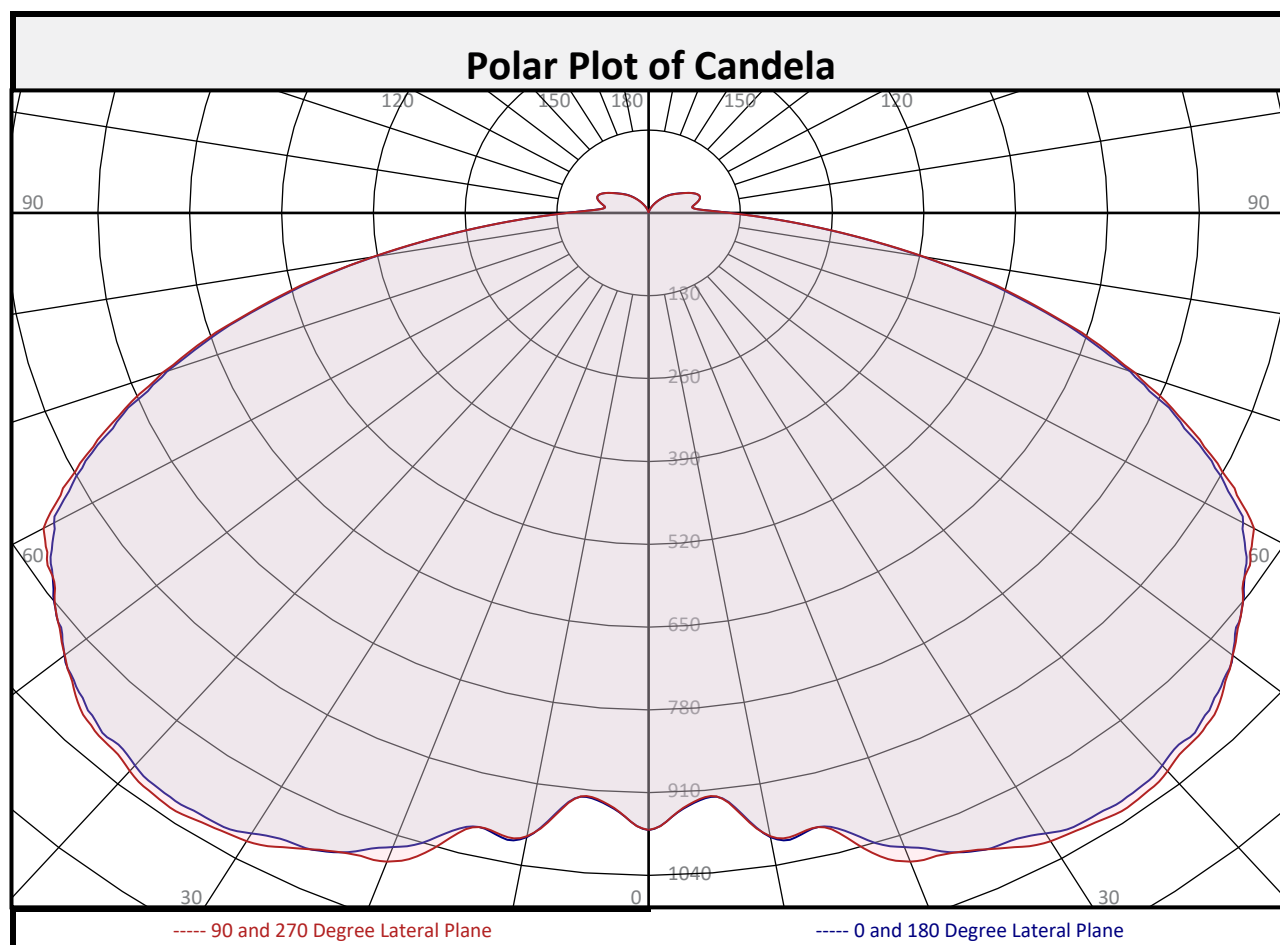
May 2021



Job Name/Title: _____ Catalog Number _____
 Contractor: _____ Notes: _____

LED Canopy Luminaire SQUARE

PHOTOMETRICS F-CPS/40W/XXK/BZ-87



Zonal Flux Summary										
Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	91.1	1.7%		90-100	84.4	1.5%		0-20	380.9	7.0%
10-20	289.7	5.3%		100-110	73.5	1.3%		0-30	892.4	16.4%
20-30	511.5	9.4%		110-120	66.8	1.2%		0-40	1611	29.5%
30-40	719.0	13.2%		120-130	46.4	0.9%		0-60	3405	62.4%
40-50	865.3	15.9%		130-140	29.4	0.5%		0-80	4876	89.4%
50-60	928.6	17.0%		140-150	15.0	0.3%		10-90	5043	92.4%
60-70	868.3	15.9%		150-160	5.5	0.1%		20-90	2096	38.4%
70-80	602.2	11.0%		160-170	1.1	0.0%		40-90	3523	64.6%
80-90	258.6	4.7%		170-180	0.0	0.0%		60-90	1729	31.7%
0-90	5134	94.1%		90-180	322.1	5.9%		0-180	5457	100.0%



Job Name/Title: _____ Catalog Number _____
Contractor: _____ Notes: _____

LED Canopy Luminaire SQUARE

PHOTOMETRICS F-CPS/40W/XXK/BZ-87

Luminous Intensity (Candela) Table

Vertical (Gamma) Angles	Lateral (C-Plane) Angles									
		0	22.5	45	67.5	90	112.5	135	157.5	180
	0	968	968	968	968	968	968	968	968	968
	2.5	942	943	944	942	941	942	944	943	942
	5	922	931	937	929	920	929	937	931	922
	7.5	941	955	969	957	944	957	969	955	941
	10	995	985	978	985	993	985	978	985	995
	12.5	999	995	993	995	996	995	993	995	999
	15	997	1005	1013	1008	1001	1008	1013	1005	997
	17.5	1032	1031	1036	1047	1053	1047	1036	1031	1032
	20	1059	1062	1076	1080	1083	1080	1076	1062	1059
	22.5	1084	1086	1092	1090	1090	1090	1092	1086	1084
	25	1104	1101	1099	1101	1103	1101	1099	1101	1104
	27.5	1111	1116	1121	1125	1122	1125	1121	1116	1111
	30	1124	1129	1132	1138	1139	1138	1132	1129	1124
	32.5	1137	1145	1143	1150	1145	1150	1143	1145	1137
	35	1139	1147	1152	1155	1152	1155	1152	1147	1139
	37.5	1139	1139	1150	1147	1151	1147	1150	1139	1139
	40	1132	1134	1143	1143	1144	1143	1143	1134	1132
	42.5	1123	1132	1137	1136	1133	1136	1137	1132	1123
	45	1115	1120	1128	1125	1126	1125	1128	1120	1115
	47.5	1100	1102	1103	1106	1105	1106	1103	1102	1100
	50	1080	1084	1084	1083	1080	1083	1084	1084	1080
	52.5	1054	1064	1072	1062	1055	1062	1072	1064	1054
	55	1029	1040	1043	1036	1027	1036	1043	1040	1029
	57.5	1005	1010	1006	1014	1011	1014	1006	1010	1005
	60	973	984	983	993	990	993	983	984	973
	62.5	920	934	946	947	936	947	946	934	920
	65	861	884	893	893	868	893	893	884	861
	67.5	798	813	835	820	803	820	835	813	798
	70	726	742	759	745	733	745	759	742	726
	72.5	649	662	667	666	656	666	667	662	649
	75	566	578	569	582	572	582	569	578	566
	77.5	483	483	466	486	487	486	466	483	483
	80	394	394	369	395	397	395	369	394	394
	82.5	307	311	290	310	309	310	290	311	307
	85	229	234	219	233	230	233	219	234	229
87.5	165	169	160	169	165	169	160	169	165	
90	117	121	115	121	117	121	115	121	117	



Job Name/Title: _____ Catalog Number _____
Contractor: _____ Notes: _____

LED Canopy Luminaire SQUARE

PHOTOMETRICS F-CPS/40W/XXK/BZ-87

Luminous Intensity (Candela) Table

	Lateral (C-Plane) Angles									
		0	22.5	45	67.5	90	112.5	135	157.5	180
Vertical (Gamma) Angles	90	117	121	115	121	117	121	115	121	117
	92.5	87	90	86	89	86	89	86	90	87
	95	69	72	69	72	69	72	69	72	69
	97.5	63	65	61	65	63	65	61	65	63
	100	64	65	60	65	64	65	60	65	64
	102.5	68	68	62	68	68	68	62	68	68
	105	73	72	64	72	73	72	64	72	73
	107.5	76	74	66	74	76	74	66	74	76
	110	77	75	65	74	77	74	65	75	77
	112.5	76	72	64	72	76	72	64	72	76
	115	72	69	61	69	73	69	61	69	72
	117.5	68	65	57	65	68	65	57	65	68
	120	63	60	54	60	63	60	54	60	63
	122.5	58	56	50	56	58	56	50	56	58
	125	54	52	47	52	54	52	47	52	54
	127.5	50	49	45	48	49	48	45	49	50
	130	46	45	42	45	46	45	42	45	46
	132.5	43	42	40	41	42	41	40	42	43
	135	39	38	37	38	39	38	37	38	39
	137.5	35	34	33	34	35	34	33	34	35
	140	31	31	30	30	31	30	30	31	31
	142.5	28	27	27	27	27	27	27	27	28
	145	24	23	24	23	24	23	24	23	24
	147.5	20	20	20	20	21	20	20	20	20
	150	17	17	17	17	17	17	17	17	17
	152.5	14	14	14	14	15	14	14	14	14
	155	12	11	11	11	12	11	11	11	12
	157.5	10	9	9	9	10	9	9	9	10
	160	8	7	7	7	8	7	7	7	8
	162.5	6	5	4	5	6	5	4	5	6
	165	4	3	3	4	4	4	3	3	4
	167.5	3	2	1	2	3	2	1	2	3
	170	1	1	0	1	2	1	0	1	1
	172.5	0	0	0	0	0	0	0	0	0
	175	0	0	0	0	0	0	0	0	0
	177.5	0	0	0	0	0	0	0	0	0
	180	0	0	0	0	0	0	0	0	0



Job Name/Title: _____ Catalog Number _____
 Contractor: _____ Notes: _____

LED Canopy Luminaire SQUARE

PHOTOMETRICS F-CPS/40W/XXK/BZ-87

Coefficients of Utilization/Room Utilization - Zonal Cavity Method																									
Effective Floor Cavity Reflectance 0.20																									
RC	80					70					50					30					10				0
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10	0			
RCR																									
0	118	118	118	118		114	114	114	114		108	108	108		102	102	102		97	97	97	94			
1	105	99	94	89		101	96	91	87		91	87	83		86	82	79		81	78	76	73			
2	94	84	76	69		90	81	74	68		77	71	65		73	67	63		69	64	61	58			
3	84	72	63	55		81	70	61	54		66	59	53		62	56	51		59	54	49	47			
4	76	63	53	45		73	61	52	45		58	50	43		54	48	42		51	46	41	38			
5	69	55	45	38		67	54	44	37		51	43	36		48	41	35		46	39	34	32			
6	64	49	39	32		61	48	39	32		45	37	31		43	36	30		41	34	29	27			
7	59	44	34	28		56	43	34	27		41	33	27		39	32	26		37	30	26	23			
8	54	40	31	24		52	39	30	24		37	29	23		35	28	23		33	27	22	20			
9	51	36	27	21		49	35	27	21		34	26	21		32	25	20		31	24	20	18			
10	47	33	25	19		46	32	24	19		31	24	19		30	23	18		28	22	18	16			

For absolute test reports, RUs are expressed as a percentage of total lumen output. For relative test reports, CUs are expressed as a percentage of total lamp output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

Circle of Light Plot				
Height(ft)	Illuminance at Nadir (fc)	Ground-level distance to half-of-nadir illuminance (ft)		
		0-180 deg	90-270 deg	
6.0	26.9	10.43	10.50	
8.0	15.1	13.91	14.00	
10.0	9.7	17.38	17.50	
12.0	6.7	20.86	21.00	
14.0	4.9	24.34	24.50	
16.0	3.8	27.81	28.01	

Average Luminance (cd/m ²)			
	0 deg Plane	45 deg Plane	90 deg Plane
0	15011	15011	15011
45	20155	19016	20348
55	21338	19721	21287
65	21703	19924	21876
75	18915	16060	19091
85	11901	8800	11948

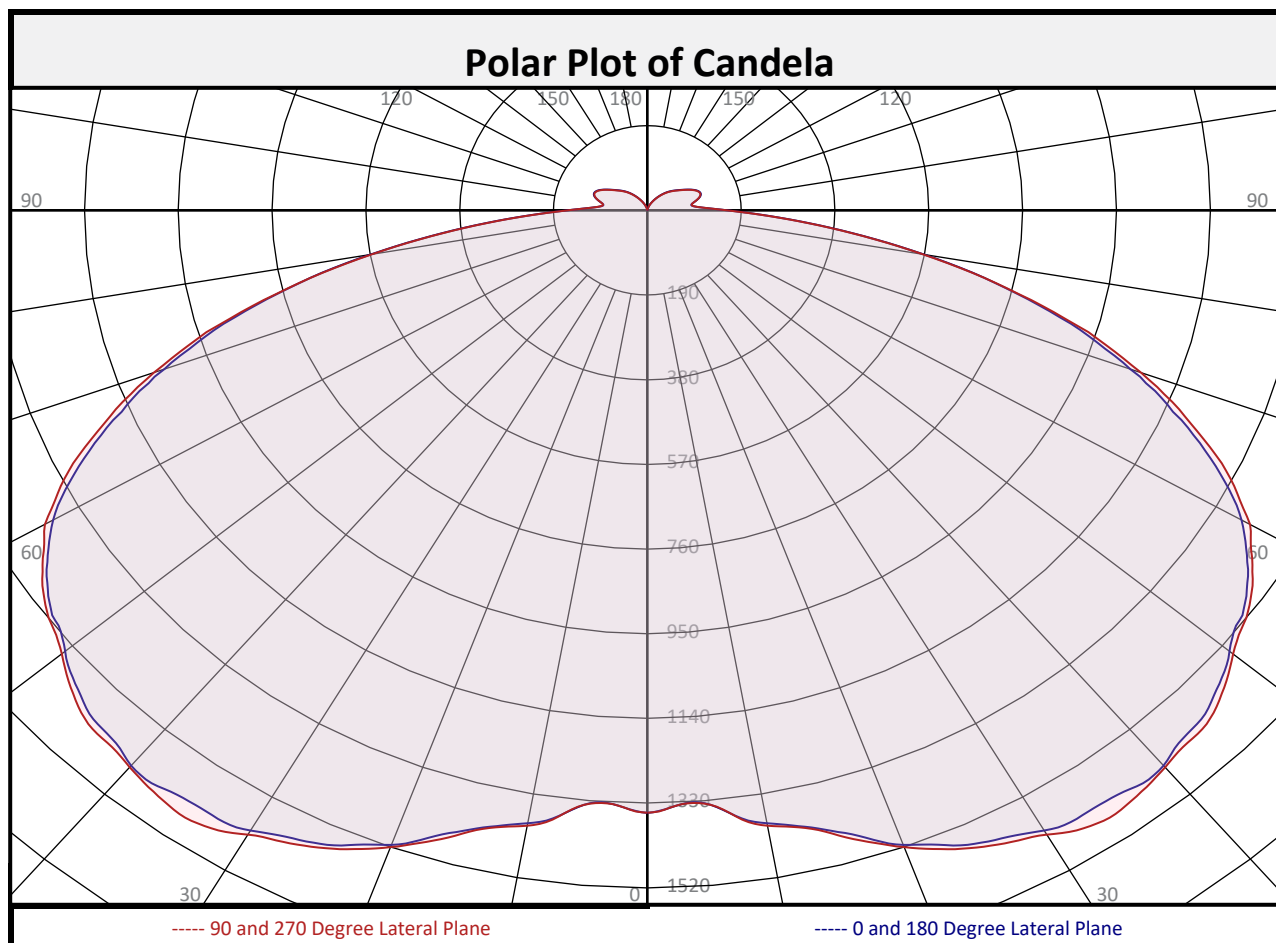
Spacing Criterion	
0 degree plane:	1.7
90 degree plane:	1.8
180 degree plane:	1.7
270 degree plane:	1.8



Job Name/Title: _____ Catalog Number _____
 Contractor: _____ Notes: _____

LED Canopy Luminaire SQUARE

PHOTOMETRICS F-CPS/60W/XXK/BZ-87



Zonal Flux Summary											
Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total	
0-10	130.2	1.7%		90-100	120.5	1.5%		0-20	543.4	6.9%	
10-20	413.2	5.3%		100-110	108.3	1.4%		0-30	1271	16.2%	
20-30	728.1	9.3%		110-120	98.6	1.3%		0-40	2297	29.4%	
30-40	1026	13.1%		120-130	68.6	0.9%		0-60	4864	62.2%	
40-50	1235	15.8%		130-140	44.0	0.6%		0-80	6983	89.2%	
50-60	1332	17.0%		140-150	22.7	0.3%		10-90	7221	92.3%	
60-70	1251	16.0%		150-160	8.5	0.1%		20-50	2988	38.2%	
70-80	867.9	11.1%		160-170	1.8	0.0%		40-90	5055	64.6%	
80-90	368.5	4.7%		170-180	0.1	0.0%		60-90	2488	31.8%	
0-90	7352	94.0%		90-180	473.0	6.0%		0-180	7825	100.0%	



Job Name/Title: _____ Catalog Number _____
 Contractor: _____ Notes: _____

LED Canopy Luminaire SQUARE

PHOTOMETRICS F-CPS/60W/XXK/BZ-87

Luminous Intensity (Candela) Table

	Lateral (C-Plane) Angles									
Vertical (Gamma) Angles		0	22.5	45	67.5	90	112.5	135	157.5	180
	0	1351	1351	1351	1351	1351	1351	1351	1351	1351
	2.5	1337	1336	1336	1337	1337	1337	1336	1336	1337
	5	1335	1333	1333	1334	1336	1334	1333	1333	1335
	7.5	1370	1369	1369	1369	1371	1369	1369	1369	1370
	10	1396	1399	1402	1401	1402	1401	1402	1399	1396
	12.5	1415	1417	1417	1420	1418	1420	1417	1417	1415
	15	1441	1445	1451	1450	1447	1450	1451	1445	1441
	17.5	1476	1478	1483	1486	1485	1486	1483	1478	1476
	20	1515	1514	1515	1519	1520	1519	1515	1514	1515
	22.5	1540	1546	1553	1553	1551	1553	1553	1546	1540
	25	1568	1569	1573	1579	1577	1579	1573	1569	1568
	27.5	1584	1590	1594	1597	1597	1597	1594	1590	1584
	30	1606	1609	1612	1616	1617	1616	1612	1609	1606
	32.5	1619	1633	1632	1633	1644	1633	1632	1633	1619
	35	1618	1644	1636	1634	1653	1634	1636	1644	1618
	37.5	1628	1635	1635	1640	1643	1640	1635	1635	1628
	40	1626	1625	1627	1630	1631	1630	1627	1625	1626
	42.5	1606	1614	1616	1618	1619	1618	1616	1614	1606
	45	1598	1598	1600	1610	1612	1610	1600	1598	1598
	47.5	1572	1572	1571	1581	1584	1581	1571	1572	1572
	50	1539	1545	1547	1550	1548	1550	1547	1545	1539
	52.5	1511	1519	1523	1524	1522	1524	1523	1519	1511
	55	1482	1490	1492	1497	1493	1497	1492	1490	1482
	57.5	1440	1451	1452	1460	1452	1460	1452	1451	1440
	60	1389	1411	1416	1425	1409	1425	1416	1411	1389
	62.5	1319	1346	1364	1368	1340	1368	1364	1346	1319
	65	1235	1269	1295	1285	1257	1285	1295	1269	1235
	67.5	1141	1169	1202	1187	1165	1187	1202	1169	1141
	70	1041	1066	1092	1082	1064	1082	1092	1066	1041
	72.5	937	956	964	969	954	969	964	956	937
	75	820	832	815	839	828	839	815	832	820
	77.5	699	695	664	696	699	696	664	695	699
	80	569	569	527	564	567	564	527	569	569
	82.5	442	447	411	441	441	441	411	447	442
	85	329	335	311	331	327	331	311	335	329
	87.5	234	241	227	239	233	239	227	241	234
90	164	171	163	170	164	170	163	171	164	



Job Name/Title: _____ Catalog Number _____
 Contractor: _____ Notes: _____

LED Canopy Luminaire SQUARE

PHOTOMETRICS F-CPS/60W/XXK/BZ-87

Luminous Intensity (Candela) Table

	Lateral (C-Plane) Angles									
		0	22.5	45	67.5	90	112.5	135	157.5	180
Vertical (Gamma) Angles	90	164	171	163	170	164	170	163	171	164
	92.5	120	127	122	127	121	127	122	127	120
	95	98	103	99	103	99	103	99	103	98
	97.5	90	94	88	94	91	94	88	94	90
	100	93	95	87	95	93	95	87	95	93
	102.5	101	101	91	100	101	100	91	101	101
	105	108	107	95	106	108	106	95	107	108
	107.5	113	110	97	109	112	109	97	110	113
	110	115	111	96	109	114	109	96	111	115
	112.5	112	108	93	106	111	106	93	108	112
	115	108	103	89	101	107	101	89	103	108
	117.5	101	96	84	95	100	95	84	96	101
	120	94	89	79	88	93	88	79	89	94
	122.5	86	83	74	82	85	82	74	83	86
	125	80	77	70	76	79	76	70	77	80
	127.5	74	72	67	71	73	71	67	72	74
	130	69	67	63	66	68	66	63	67	69
	132.5	64	63	59	61	63	61	59	63	64
	135	59	57	55	56	58	56	55	57	59
	137.5	53	52	50	51	52	51	50	52	53
	140	47	46	45	46	47	46	45	46	47
	142.5	42	41	40	40	41	40	40	41	42
	145	36	35	36	35	36	35	36	35	36
	147.5	31	30	31	30	31	30	31	30	31
	150	26	26	26	25	26	25	26	26	26
	152.5	22	21	22	21	22	21	22	21	22
	155	18	17	18	17	18	17	18	17	18
	157.5	15	14	14	13	15	13	14	14	15
	160	12	10	11	10	12	10	11	10	12
	162.5	9	8	8	8	9	8	8	8	9
	165	7	6	5	6	7	6	5	6	7
	167.5	4	4	3	4	4	4	3	4	4
	170	3	2	0	2	3	2	0	2	3
	172.5	0	0	0	0	0	0	0	0	0
	175	0	0	0	0	0	0	0	0	0
	177.5	0	0	0	0	0	0	0	0	0
	180	0	0	0	0	0	0	0	0	0



Job Name/Title: _____ Catalog Number _____
 Contractor: _____ Notes: _____

LED Canopy Luminaire SQUARE

PHOTOMETRICS F-CPS/60W/XXK/BZ-87

Coefficients of Utilization/Room Utilization - Zonal Cavity Method																									
Effective Floor Cavity Reflectance 0.20																									
RC	80					70					50					30					10				0
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10	0			
RCR																									
0	118	118	118	118		114	114	114	114		108	108	108		102	102	102		96	96	96	94			
1	105	99	94	89		101	96	91	87		90	87	83		85	82	79		81	78	76	73			
2	94	84	76	69		90	81	74	68		77	71	65		72	67	63		68	64	60	58			
3	84	72	63	55		81	70	61	54		66	59	52		62	56	51		59	54	49	46			
4	76	63	53	45		73	61	52	44		57	49	43		54	47	42		51	45	41	38			
5	69	55	45	38		67	54	44	37		51	42	36		48	41	35		45	39	34	32			
6	64	49	39	32		61	48	38	32		45	37	31		43	36	30		41	34	29	27			
7	59	44	34	28		56	43	34	27		41	33	27		39	31	26		37	30	25	23			
8	54	40	31	24		52	39	30	24		37	29	23		35	28	23		33	27	22	20			
9	50	36	27	21		49	35	27	21		34	26	21		32	25	20		31	24	20	18			
10	47	33	25	19		45	32	24	19		31	24	18		30	23	18		28	22	18	16			

For absolute test reports, RUs are expressed as a percentage of total lumen output. For relative test reports, CUs are expressed as a percentage of total lamp output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

Circle of Light Plot				
Height(ft)	Illuminance at Nadir (fc)	Ground-level distance to half-of-nadir illuminance (ft)		
		0-180 deg	90-270 deg	
6.0	37.5	10.63	10.68	
8.0	21.1	14.18	14.24	
10.0	13.5	17.72	17.80	
12.0	9.4	21.26	21.36	
14.0	6.9	24.81	24.92	
16.0	5.3	28.35	28.48	

Average Luminance (cd/m ²)			
	0 deg Plane	45 deg Plane	90 deg Plane
0	20947	20947	20947
45	28882	26964	29135
55	30725	28217	30963
65	31110	28876	31668
75	27399	22996	27662
85	17062	12468	16976

Spacing Criterion	
0 degree plane:	1.8
90 degree plane:	1.8
180 degree plane:	1.8
270 degree plane:	1.8